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1 [Multivariate visualization in observation-based testing](#)
[David Leon, Andy Podgurski, Lee J. White](#)

June 2000

ICSE '00: Proceedings of the 22nd international conference on

Publisher: ACM

 Full text available: [Pdf](#) (316.04 KB)

 Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 61, Downloads

We explore the use of multivariate visualization techniques to support a observation-based testing. Applications of multivariate visualization are

Keywords: correspondence analysis, data visualization, multivariate data observation-based testing, software testing

2 [Online design bug detection: RTL analysis, flexible mechanisms, and](#)
[Kypros Constantinides, Onur Mutlu, Todd Austin](#)

 November 2008 **MICRO '08:** Proceedings of the 2008 41st IEEE/ACM International

Publisher: IEEE Computer Society

 Full text available: [Pdf](#) (827.43 KB)

 Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 52, Downloads

Higher level of resource integration and the addition of new features in pressure on their verification. Although a large amount of resources and modern processors, ...

3 [Fast and flexible application-level networking on exokernel systems](#)
[Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Hector M. Brice](#)

 February 2002 **Transactions on Computer Systems (TOCS)**, Volume 20 Is

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (500.67 KB)

 Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 69, Downloads


Application-level networking is a promising software organization for important network services. The Xok/ExOS exokernel system includes a services, while at ...

Keywords: Extensible systems, OS structure, fast servers, network services

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4 [Instrumenting where it hurts: an automatic concurrent debugging tec](#)

 Rachel Tzorel, Shmuel Ur, Elad Yom-Tov

July 2007 **ISSTA '07**: Proceedings of the 2007 international symposium

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.23 MB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 92, Downloa

As concurrent and distributive applications are becoming more common difficult, practical tools for automatic debugging of concurrent applicatio applied automatic debugging ...

Keywords: concurrency, debugging, feature selection

5 [Edgecomputing: extending enterprise applications to the edge of the](#)

 A. Davis, J. Parikh, W. E. Weihl

May 2004 **WWW Alt. '04**: Proceedings of the 13th international World I papers & posters

Publisher: ACM

Full text available:  Pdf (224.06 KB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 79, Downloa

Content delivery networks have evolved beyond traditional distributed c EdgeComputing it is now possible to deploy and run enterprise business computing platform, to provide ...

Keywords: Internet applications, N-tier applications, Web services, dis computing, split-tier applications, utility computing, web applications

6 [DSD-Crasher: A hybrid analysis tool for bug finding](#)

 Christoph Csallner, Yannis Smaragdakis, Tao Xie

April 2008 **Transactions on Software Engineering and Methodology**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (392.92 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 251, Downl

DSD-Crasher is a bug finding tool that follows a three-step approach to intended execution behavior with dynamic invariant detection. The deriv from the program's input ...


Keywords: Automatic testing, bug finding, dynamic analysis, dynamic false positives, static analysis, test case generation, usability

7 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **CASCON '97**: Proceedings of the 1997 conference of the C research

Publisher: IBM Press


Full text available:  Pdf (4.21 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 363, Downl

Understanding distributed applications is a tedious and difficult task. Vis
are often used to obtain a better understanding of the execution of the
Poet, an event ...

8 Who should fix this bug?

 John Arvik, Lyndon Hlew, Gail C. Murphy

May 2006 **ICSE '06:** Proceedings of the 28th international conference o

Publisher: ACM

Full text available:  Pdf (203.21 KB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 60, Downloads (12 Months): 229, Downl

Open source development projects typically support an open bug reposi
report bugs. The reports that appear in this repository must be triaged i
requires attention and if ...

Keywords: bug report assignment, bug triage, issue tracking, machine

9 Scalable statistical bug isolation

 Ben Liblit, Mayur Naik, Alice X. Zheng, Alex Aiken, Michael I. Jordan

June 2005 **PLDI '05:** Proceedings of the 2005 ACM SIGPLAN conference
implementation

Publisher: ACM 

Full text available:  Pdf (180.44 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 161, Downl


We present a statistical debugging algorithm that isolates bugs in progr
Earlier statistical algorithms that focus solely on identifying predictors th
poorly when there ...

Keywords: bug isolation, feature selection, invariants, random samplin

Also published in:

June 2005 **SIGPLAN Notices** Volume 40 Issue 6

10 GPGPU: general purpose computation on graphics hardware

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia

August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

Publisher: ACM 

Full text available:  Pdf (63.03 MB)





Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 255, Downloads (12 Months): 1580, Dov

The graphics processor (GPU) on today's commodity video cards has ev
processor. The latest graphics architectures provide tremendous memor
with fully programmable vertex ...

11


AppleScript

-  [William R. Cook](#)
 June 2007 **HOPL III**: Proceedings of the third ACM SIGPLAN conference
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Mov](#) (55:56 MIN),  [Pdf](#) (621.56 KB) Additional Information: [full citation](#), [index b](#)
Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 226, Downl

AppleScript is a scripting language and environment for the Mac OS. Or end users to *automate* complex tasks and *customize* Mac OS application standard ...




Keywords: AppleScript, history, scripting

12 [Finding bugs is easy](#)

-  [David Hovemeyer, William Pugh](#)
 December 2004 **SIGPLAN Notices**, Volume 39 Issue 12
Publisher: ACM
 Full text available:  [Pdf](#) (506.92 KB) Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 241, Downl

Many techniques have been developed over the years to automatically f rely on formal methods and sophisticated program analysis. While these to apply, and they ...

13 [ASSURE: automatic software self-healing using rescue points](#)

-  [Stelios Sidiroglou, Oren Laadan, Carlos Perez, Nicolas Viennot, Jason Nieh](#),
 February 2009 **ASPLOS '09**: Proceeding of the 14th international conferenc
 languages and operating systems
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Pdf](#) (641.80 KB) Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 272, Downl




Software failures in server applications are a significant problem for pre ASSURE, a system that introduces rescue points that recover software f system integrity and availability, ...

Keywords: binary patching, checkpoint restart, error recovery, reliable :

Also published in:

February 2009 **SIGPLAN Notices** Volume 44 Issue 3

14 [Anomaly-based bug prediction, isolation, and validation: an automati](#)

-  [Martin Dimitrov, Huiyang Zhou](#)
 February 2009 **ASPLOS '09**: Proceeding of the 14th international conferenc
 languages and operating systems
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Pdf](#) (600.20 KB) Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 158, Downl


Software defects, commonly known as bugs, present a serious challenge: a program failure is observed, the debugging activities to locate the defect are consuming. In this paper, ...

Keywords: architectural support, automated debugging


Also published in:

February 2009 **SIGPLAN Notices** Volume 44 Issue 3

15 [Automatically patching errors in deployed software](#)

 Jeff H. Perkins, Sunghun Kim, Sam Larsen, Saman Amarasinghe, Jonathan Frank Sherwood, Stelios Sidiroglou, Greg Sullivan, Weng-Fai Wong, Yoav Zigelboim
October 2009 **SOSP '09: Proceedings of the ACM SIGOPS 22nd symposium**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (471.33 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 18, Downloads (All Time): 18


We present ClearView, a system for automatically patching errors in deployed Windows x86 binaries without any need for source code, debugging information, or human intervention. ...

Keywords: self healing

16 [Impala: a middleware system for managing autonomic, parallel sensing](#)

 Ting Liu, Margaret Martonosi
June 2003 **PPoPP '03: Proceedings of the ninth ACM SIGPLAN symposium on programming languages**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (684.33 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 126, Downloads (All Time): 32


Sensor networks are long-running computer systems with many sensing mechanisms that provide information about their environment, process and fuse that information, and respond to that information. Like traditional parallel ...

Keywords: middleware system, sensor networks, software adaptation, self healing


Also published in:

October 2003 **SIGPLAN Notices** Volume 38 Issue 10

17 [A survey of linguistic structures for application-level fault tolerance](#)

 Vincenzo De Florio, Chris Blondia
April 2008 **Computing Surveys (CSUR)**, Volume 40 Issue 2

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (2.23 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 494, Downloads (All Time): 55

Structures for the expression of fault-tolerance provisions in application article. Structuring techniques answer questions as to how to incorporate computer program ...

Keywords: Language support for software-implemented fault tolerance separation of design concerns, software fault tolerance

- 18** [Shield: vulnerability-driven network filters for preventing known vulnerabilities](#)
 [Helen J. Wang, Chuanxiong Guo, Daniel R. Simon, Alf Zugenmaier](#)
 August 2004 **SIGCOMM '04: Proceedings of the 2004 conference on Application protocols for computer communications**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (242.89 KB)

Additional Information: [full citation](#), [abstract](#)


Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 135, Downloads (24 Months): 135

Software patching has not been effective as a first-line defense against vulnerabilities that have long been available for their corresponding vulnerabilities. General systems immediately, ...

Keywords: generic protocol analyzer, network filter, patching, vulnerability

Also published in:

August 2004 **SIGCOMM Computer Communication Review** Volume 34 Issue 4

- 19** [Identifying bug signatures using discriminative graph mining](#)
 [Hong Cheng, David Lo, Yang Zhou, Xiaoyin Wang, Xifeng Yan](#)
 July 2009 **ISSTA '09: Proceedings of the eighteenth international symposium on integrated software testing and analysis**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (582.47 KB)

Additional Information: [full citation](#), [abstract](#)


Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 58, Downloads (24 Months): 58

Bug localization has attracted a lot of attention recently. Most existing approaches focus on finding a statement or function call which is very likely to contain bugs. Although this is usually very hard for ...

Keywords: bug signature, discriminative subgraph mining

- 20** [Cookies: A deployment study and the testing implications](#)
 [Andrew F. Tappenden, James Miller](#)
 June 2009 **Transactions on the Web (TWEB)**, Volume 3 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (2.25 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 192, Downloads (24 Months): 192

The results of an extensive investigation of cookie deployment amongst web applications is found to be approaching universal levels and hence there are implications for software engineering ...

Keywords: Cookies, Internet browser, Web engineering, Web technolo

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